

## Dual Channel Redundant Fixed Wireless Link, and Method Therefore

### Abstract:

A dual channel redundant wireless network link formed by the Redundant Fixed Wireless Network Link device 10 of the present invention provides a very high reliable network element for mission critical wireless network application. Redundant Fixed Wireless Link device (10) with two wireless networking radio channel (11,12) turned on simultaneously, and running networking service feature is working as Service Equipment (SE). Both wireless networking radio channel (11,12) of the SE have the same directional wireless network coverage area. The two wireless networking radio channels (11,12) are separated by cross polarization of antenna at same radio frequency, or different radio frequency character. One Redundant Fixed Wireless Link device (10) with one of its two wireless networking radio channel (11,12) turned on and communicating with said SE, and loaded with networking client feature is acting as Client Equipment (CE). The link quality monitor feature of the CE is monitoring the communication link between the SE and CE. When the current link quality is low or the link is down, the CE automatically switches on the alternate wireless networking radio channel (11,12) to maintain the network communication between the SE and CE. One SE may communicate with plurality of CE in the same wireless network coverage area.